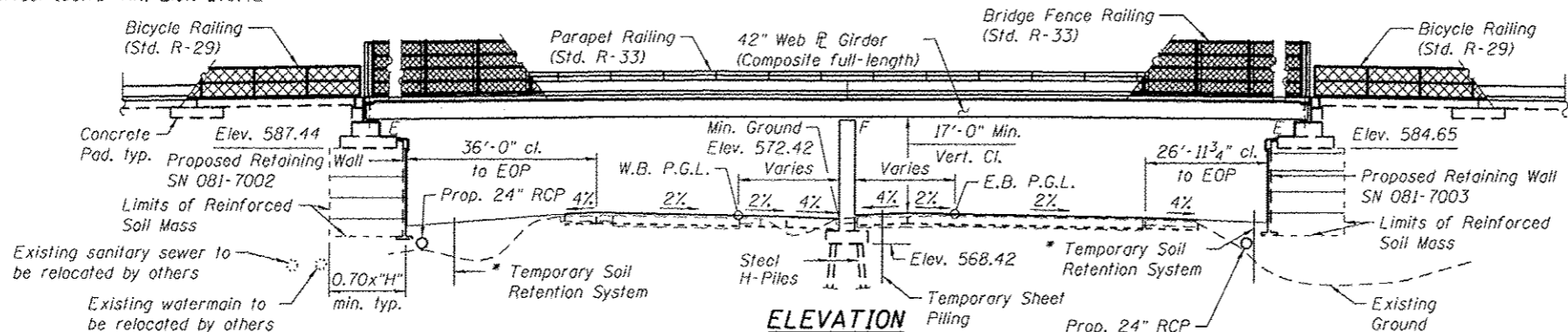


Benchmark: "0" in the word "Open" on Fire Hydrant
Sta. 294+65.77, Offset 108.75' Rt., Elev. 579.42

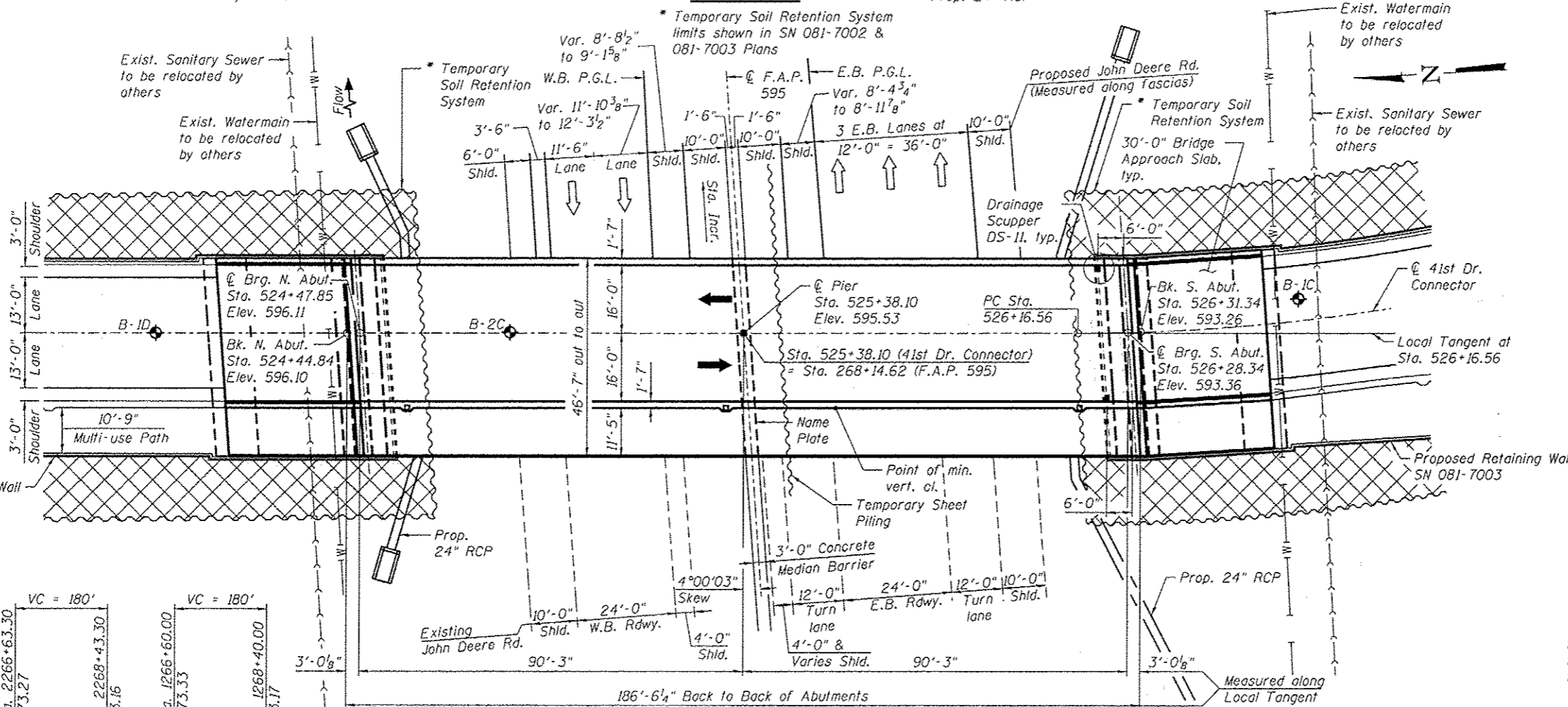
Existing Structure: None



APPROVED
For Structural Adequacy Only
Joseph J. Hosanna Jr.
Engineer of Bridges & Structures

CURVE DATA

41st Drive Connector	@ FAP 595
P.I. STA. 531+37.60	P.I. STA. 271+73.85
$\Delta = 96^{\circ}59'51"$ (LT)	$\Delta = 17^{\circ}25'51"$ (RT)
$D = 12^{\circ}25'43"$	$D = 0^{\circ}36'00"$
$R = 461.00'$	$R = 9,549.34'$
$L = 780.44'$	$L = 2,905.15'$
$T = 521.04'$	$T = 1,463.88'$
$E = 234.71'$	$E = 111.55'$
P.C. STA. 526+16.56	P.C. STA. 257+09.97
P.T. STA. 533+97.00	P.T. STA. 286+15.12



STATION 525+38.10
BUILT 20... BY
STATE OF ILLINOIS
F.A.P. RT. 595 SEC. (142-1HB)
LOADING HL-93
STR. NO. 081-0176

NAME PLATE

See Std. 515001

LOADING HL-93

Allow 50#/sq. ft. for future wearing surface.

DESIGN SPECIFICATIONS

2012 AASHTO LRFD Bridge Design Specifications with 2012 Interims

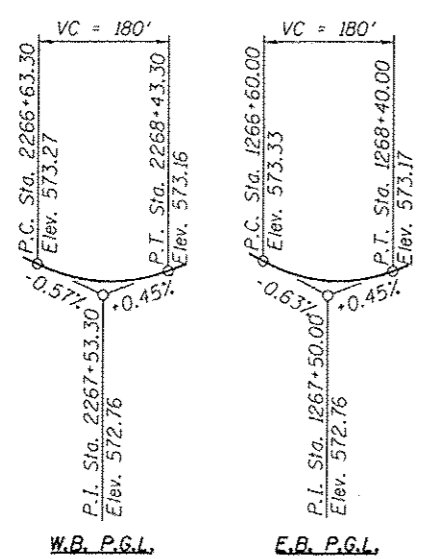
DESIGN STRESSES

FIELD UNITS

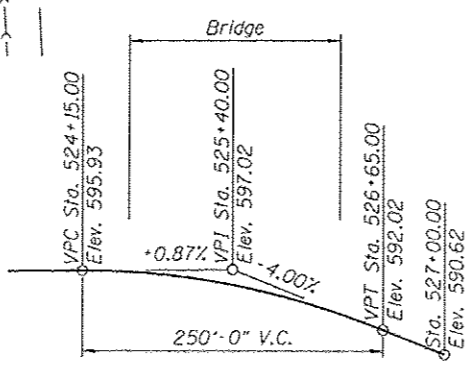
$f'_c = 3,500$ psi
 $f_y = 60,000$ psi (Reinforcement)
 $f_y = 50,000$ psi (M270 Grade 50 Structural Steel)

SEISMIC DATA

Seismic Performance Zone (SPZ) = 1
Design Spectral Acceleration at 1.0 sec. (S_{D1}) = 0.087g
Design Spectral Acceleration at 0.2 sec. ($S_{D0.2}$) = 0.128g
Soil Site Class = D

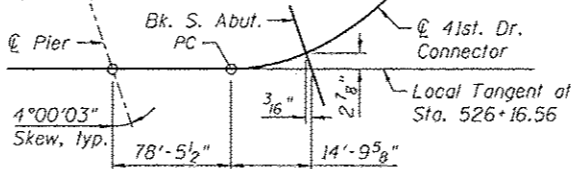


PROFILE GRADE
F.A.P. 595



PROFILE GRADE
41ST DRIVE CONNECTOR
(Along P.G.)

PLAN



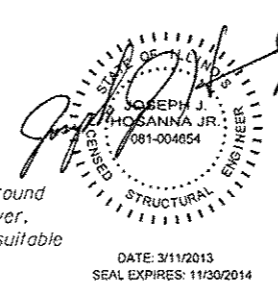
OFFSET SKETCH

LEGEND:

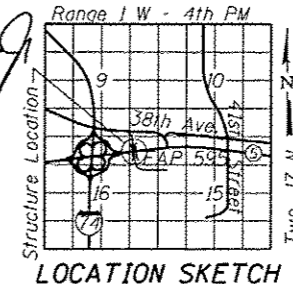
Removal and Disposal of Unsuitable Material.
Rockfill is to be placed up to the top of existing ground or bottom of MSE Wall leveling pad, whichever is lower.
See Roadway plans for Removal and Disposal of Unsuitable Materials and Rock Fill quantities.
* Cross hatching not shown under roadway and path for clarity.

LEGEND

Indicates Soil Boring Location



DATE: 3/11/2013
SEAL EXPIRES: 11/30/2014



LOCATION SKETCH

GENERAL PLAN AND ELEVATION
41ST DRIVE CONNECTOR OVER
JOHN DEERE ROAD (IL 5)
F.A.P. RTE. 595 - SECTION (142-1HB)
ROCK ISLAND COUNTY
STATION 525+38.10
STRUCTURE NO. 081-0176

S:\P20\1\2283\393\380\CONTRACT\1\Design\AS\Structure\1\CAD\081-0176-026-084-01-GPE.dgn



USER NAME	DESIGNED	CHECKED	PLOT SCALE	PLOT DATE
rdantay	BWS	JJH	3/28 1" = 10'	3/21/2013
	REVISED	RD		
	REVISED	BWS		

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
595	(142-1)R & (142-1)B	ROCK ISLAND	507	300
			CONTRACT NO. 64884	